

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-34 (canceled)

Claim 35 (previously presented). A device for producing a body ply material for a pneumatic tire, comprising:

 a ribbon manufacturing device for manufacturing a ribbon of a predetermined width dimension in the form of a cord having a rubber covering applied thereto;

 a ribbon winding mechanism for spirally winding said ribbon on an outer peripheral surface of a drum and

 a bonding mechanism for bonding lateral edges of the ribbon to manufacture a wrapper;

 a peripheral length dimension of the outer peripheral surface of said drum being set equal to or integral multiples of a width dimension of a body ply material for use in a tire;

 a winding length in a drum longitudinal direction of said wrapper being set equal to a length dimension of said body ply material for use in a tire;

 a wrapper cutting mechanism for cutting said wrapper along a gentle curve which is substantially orthogonal to the longitudinal direction of the ribbon to form the body ply material of a predetermined width dimension;

 a body ply material peeling mechanism for peeling the body ply material from the drum; and

a tray for receiving and supporting the body ply material peeled from the drum, said tray having a plurality of vacuum pads for adsorbing the peeled body ply material on the tray and being transported to a direction intersecting the axial line of the drum by a tray transporting mechanism;

wherein said body poly material peeling mechanism comprises a peeling tool for partially peeling an edge of a cut body ply material, following cutting of the wrapper, and a rotating peeling bar entering a gap of the cut edge, formed by the peeling tool, to transfer the body ply material onto the tray.

Claim 36 (previously presented). The device for producing a body ply material for a tire according to claim 35, wherein said ribbon winding mechanism comprises a ribbon winding guide corresponding to the drum rotatably supported by a frame, and a relative movement mechanism for relatively moving said drum and said ribbon winding guide in an axial direction of the drum at a predetermined feed speed.

Claim 37 (previously presented). The device for producing a body ply material for a tire according to claim 36, wherein start end holding mechanism capable of holding a winding start end of the ribbon is provided for the drum.

Claim 38 (original). The device for producing a body ply material for a tire according to claim 36, wherein said ribbon winding mechanism comprises a ribbon cutting mechanism for cutting a winding finish end of the ribbon wound on the drum.

Claim 39 (previously presented). The device for producing a body ply material for a tire according to claim 35, wherein said wrapper cutting mechanism comprises a cutter disposed corresponding to said drum for movements into contact with and away from the drum, and a moving mechanism for moving said cutter along a gentle curve which is substantially orthogonal to the longitudinal direction of the ribbon wound on the drum, while holding said drum in a non-rotating state.

Claim 40 (previously presented). The device for producing a body ply material for a tire according to claim 35, wherein said wrapper cutting mechanism is configured to move the cutter disposed corresponding to said drum for movements into contact with and away from the drum in a direction parallel with the axial direction of the drum, and slowly pivoting said drum to cut the wrapper along the gentle curve which is substantially orthogonal to the longitudinal direction of the ribbon wound on the drum.

Claim 41 (previously presented). The device for producing a body ply material for a tire according to claim 38, wherein a blade groove is provided on the outer peripheral surface of the

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drum for cutting said wrapper along a gentle curve which is substantially orthogonal to the longitudinal direction of the ribbon wound on the drum, wherein a blade edge of said cutter is guided by one edge of said blade groove to cut the wrapper.

Claims 42-43 (canceled).

Claim 44 (previously presented). The device for producing a body ply material for a tire according to claim 35, wherein said body ply material peeling mechanism is configured to transfer the body ply material on said tray which is moving in a transporting direction, while peeling the body ply material from the drum in a rotating state.

Claim 45 (previously presented). The device for producing a body ply material for a tire according to claim 35, wherein said device has said drum and additional drums, said drum and additional drums being disposed at a plurality of locations, and each of said drum and additional drums is configured to be switchable among a ribbon winding position, a ribbon bonding position, a wrapper cutting position, and a body ply material peeling position by a position switching mechanism.

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Claim 46 (previously presented). The device for producing a body ply material for a tire according to claim 35, wherein said drum comprise a drum diameter changing mechanism for enlarging and reducing outer diameters thereof.

Claim 47 (previously presented). The device for producing a body ply material for a tire according to claim 45, comprising:

a drum reversing/supporting mechanism for rotatably supporting a pair of drums having the same outer diameter, and formed with a blade groove, and functioning as a position switching mechanism for alternately reversing said pair of drums to two positions,

wherein a ribbon is wound on the outer periphery of one of the pair of drums placed at one position by the drum reversing/supporting mechanism to form a wrapper, and

said wrapper on the outer periphery of the one of the pair of drums reversed to the other position by said drum reversing/supporting mechanism is cut along the blade groove of the drum to form a body ply material.

Claim 48 (canceled).

Claim 49 (previously presented). The device for producing a body ply material for a tire according to claim 39, wherein said wrapper cutting mechanism comprises a roller for pressing the wrapper ahead of said cutter.

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Claim 50 (previously presented). The device for producing a body ply material for a tire according to claim 35, wherein said tray transporting mechanism comprises a pressing force adjusting mechanism for adjusting a pressing force of the tray to the drum.

Claim 51 (previously presented). The device for producing a body ply material for a tire according to claim 35, wherein said ribbon winding mechanism is configured to perform a winding operation for the drum in an outgoing stroke and a returning stroke of reciprocal movements in a direction parallel with the axial direction of the drum.

Claim 52 -54 (canceled).